IN THE CLAIMS

Please cancel claims 34-49 without prejudice. Claims 1-33 were previously canceled without prejudice. Please amend claims 50-69.

- 1-33. (Canceled)
- 34-49. (Canceled)
- 50. (Currently Amended) A method of designing an integrated circuit comprising the steps of:
- (a) specifying a communication block for the integrated circuit, including the locations of a plurality of unspecified androgynous interfaces;
 - (b) identifying functional blocks to comprise the integrated circuit;
- (c) positioning functional blocks to form a layout of the integrated circuit so that distances of connections between functional blocks and distances of connections between functional blocks and unspecified androgynous interfaces are minimized; and
- (d) adapting each unspecified androgynous interface to perform as a target or as an initiator based on the layout, the step of adapting being performed after the functional blocks are positioned to form the layout of the integrated circuit.
- 51. (Currently Amended) The method of claim 50, the step of adapting each unspecified androgynous interface being performed dynamically comprising dynamically adapting each unspecified androgynous interface to perform as a target or as an initiator.

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- 52. (Currently Amended) The method model of claim 50, further comprising the step of switching an androgynous interface between performing as the a target and performing as the an initiator.
- 53. (Currently Amended) The method of claim 50, wherein an androgynous interface is adapted to perform as the a target of a first communication, further comprising the step of switching the interface from the a target of the first communication to the an initiator of a subsequent communication.
- 54. (Currently Amended) The method of claim 50, wherein an androgynous interface is adapted to perform as the an initiator of a first communication, further comprising the step of switching the interface from the an initiator of the first communication to the a target of a subsequent communication.
- 55. (Currently Amended) The method of claim 50, further comprising the step of switching each androgynous interface between performing as the a target and performing as the an initiator.
- 56. (Currently Amended) The method of claim 55, wherein each androgynous interface is adapted to perform as the a target of a first communication and switches to perform as the an initiator of a subsequent communication.
- 57. (Currently Amended) The method of claim 55, wherein each androgynous port is adapted to perform as the an initiator of a first communication and switches to perform as the a target of a subsequent communication.

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- 58. (Currently Amended) The method of claim 50, wherein each unspecified androgynous interface is adapted to perform as the a target or the an initiator based on a the type of interface that is required.
- 59. (Currently Amended) The method of claim 50, wherein each unspecified androgynous interface is adapted to perform as the a target and or the an initiator at different times.
 - 60. (Currently Amended) The method of claim 50, further comprising the step of finalizing the layout of the integrated circuit.
- 61. (Currently Amended) The method of claim 60, wherein each unspecified androgynous interface is adapted to perform as the a target or the an initiator after the layout of the integrated circuit is finalized.
- 62. (Currently Amended) The method model of claim 50, the step of adapting each unspecified androgynous interface further comprising the step of

setting a register of an androgynous interface so that the interface performs as the a target or the an initiator.

63. (Currently Amended) The method of claim 50, the step of adapting each unspecified androgynous interface further comprising the step of

performing a logic synthesis that deletes a state machine configuration that is not used for actual operation of the integrated circuit so that <u>a</u> the remaining state machine adapts the interface to perform as the <u>a</u> target or the <u>an</u> initiator.

64. (Currently Amended) The method model of claim 50, the step of adapting each unspecified androgynous interface further comprising adapting each unspecified androgynous interface according to a logic value of a pin of the interface being set to a "1" or a "0".

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- 65. (Currently Amended) The method of claim 50, wherein the step of positioning functional blocks to form the layout minimizes a footprint of the integrated circuit.
- 66. (Currently Amended) The method of claim 50, wherein the step of positioning functional blocks does not account for a type of interface.
- 67. (Currently Amended) The method of claim 50, the specified specifying the communication block comprising specifying a communication block that is being part of a foundation block that includes a processor.
- 68. (Currently Amended) The <u>method model</u> of claim 50, wherein each unspecified androgynous interface is adapted to perform as <u>the</u> a target or as <u>the</u> an initiator without adhering to a specification of a component library.
- 69. (Currently Amended) The <u>method model</u> of claim 50, wherein each unspecified androgynous port interface is bi-directional.

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